

Curriculum Vitae

PERSONAL INFORMATION

First name, surname: Bassam M. M. Abunahel

Address: Desasiswa Bakti Permai, H07, Universiti Sains Malaysia (USM)

Handphone: +60174451519

Date of birth: 30.12.1992

Place of birth: Gaza Strip, State of Palestine

Marital status: Single

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HONOR AND AWARDS

Faculty: An honor best student in the Faculty of Applied Medical Science in 2014.

University: An excellent honor bachelor's degree from Al-Azhar University-Gaza.

Department: Teaching Assistant in the Department of Medical Imaging at Al-Azhar University, Palestine for almost three academic years.

Country: One of the best three students granted an international scholarship by the Islamic Development Bank (IDB) to pursue master study oversea.

EDUCATION

02/2018 – 01/2019

Master's degree in Radiation Science, Universiti Sains Malaysia (USM), Malaysia

- Dosimetry and calibration dose calculation.
- Radiation Physics and Radioactivity calculation.
- General Medical and Industrial Principles of Radiation Protection.
- Laboratory experimental reports including phantom dose calculation, X-ray quality control, and material characterization using gamma emitter source.
- Dissertation, research methodology and article publication.

09/2010 – 06/2014

Honor Bachelor's degree in Medical Imaging, Al-Azhar University-Gaza

- Medical Imaging and Radiotherapy.
- Radiation Physics, Radiation biology and Radiation Protection.
- Human anatomy and Physiology.
- Oncology and Pathology.
- Medical Physics and Basic and Advanced Radiographic Equipment.
- Diagnostic Medical Imaging Procedures (X-ray, CT, Fluoroscopy, MRI, PET-CT, SPECT)
- Therapeutic Radiation Procedures (Linear accelerator, gamma knife, Brachytherapy)

EMPLOYMENT HISTORY

01/2019 – 02/2019

Volunteer, Mount Miriam Cancer Hospital, Pinang, Malaysia

- Perform treatment simulation using CT simulator.
- Observe different techniques of treatment including IMRT, 3D CRT, SRT using Linac, Tomotherapy and Cyberknife.

08/2018 – 09/2018

Volunteer, KPJ Hospital, Bukit Mertajam, Malaysia

- Patient care and ethics.
- Performing the basic and the advanced MRI procedures using 1.5 Tesla scan.

06/2018 – 09/2018

Volunteer, Mount Miriam Cancer Hospital, Pinang, Malaysia

- Radiopharmaceutical radiotracer material preparation in Hot lab.
- Performing different kinds of nuclear medicine procedures using PET/CT.
- Performing daily QC and properly handling with emergency cases like spillage.

09/2016 – 05/2017

Part time lecturer, Al-Azhar University-Gaza, Palestine

- Teaching the practical courses in the radiology field for the undergraduate students.
- Clinical Training and Patient care in Radiology department courses.
- Radiographic Position beside the radiographic procedures such as Fluoroscopy, CT, MRI and Dental Imaging.
- Special responsibility for diversity and creativity

07/2016 – 09/2016

Volunteer, Red Crescent Society for Gaza Strip

- Patient Care and ethics in Radiology department
- Radiographic Procedures includes ESWEL, CT, MRI, Dental CT and Fluoroscopy

11/2014 – 05/2016

Teaching Assistant, Medical Imaging department, Al-Azhar University-Gaza, Palestine

- Teaching the practical courses in the radiology field for the undergraduate students.
- Clinical Training and Patient care in Radiology department courses.
- Radiographic Position beside the radiographic procedures such as Fluoroscopy, CT, MRI and Dental Imaging.
- Special responsibility for diversity and creativity.

SKILLS AND TRAINING PROGRAMS

In vivo animal (mice) study skills

- Safely handling, restraining, and Intraperitoneal drug administration.
- A septic and anesthetic subcutaneous implantation of cancer cell lines.
- Intravenous radiopharmaceutical administration skills.
- Blood sampling and mice cardiac puncture.

In vitro cancer cell lines (breast cancer) skills

- Reviving, Passage, and Cryopreserving of cancer cell lines.
- A septic media and breast cancer cell lines preparation skills.
- Cell counting and MTT assay.

Research Methodology

- Writing an effective research paper.
- Thesis formatting strategy.

Language and software programming

- An international Test of English as a Foreign Language (TOEFL).
- Basic knowledge of Monte Carlo simulation (Geant4).
- Microsoft office and Origin program.

LIST OF PUBLICATIONS

The published papers as first author are available at Research gate:

https://www.researchgate.net/profile/Bassam_Abunahel

- (1) **Abunahel, B. M.**, Ramli, R. M., Quffa, K. M., & Azman, N. Z. N. (2018). Effect of nanofibrous porosity on the X-ray attenuation properties of electrospun n-Bi₂O₃/epoxy-polyvinyl alcohol (PVA) nanofiber mats. Applied Physics A, 124(8), 540. **(ISI cited publication).**
- (2) **Abunahel, B. M.**, Mustafa, I. S., & Azman, N. Z. N. (2018). Characteristics of X-ray attenuation in nano-sized bismuth oxide/epoxy-polyvinyl alcohol (PVA) matrix composites. Applied Physics A, 124(12), 828. **(ISI cited publication).**
- (3) **Abunahel, B. M.**, Azman, N. Z. N., & Jamil, M. Effect of Needle Diameter on the Morphological Structure of Electrospun n-Bi₂O₃/Epoxy-PVA Nanofiber Mats. **(Proceeding).**

REFERENCE

- 1) **Prof. Dato, Dr. Abdel Aziz Tajuddin**
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Universiti Sains Malaysia (USM), Pinang, Malaysia
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- 2) **Prof. Dato, Dr. Ahmad Zakaria**
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